

$f_2(2300)$ $I^G(J^{PC}) = 0^+(2^{++})$ **$f_2(2300)$ MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2297±28	¹ ETKIN 88	MPS	22 $\pi^- p \rightarrow \phi\phi n$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
2270±12	VLADIMIRSK...06	SPEC	40 $\pi^- p \rightarrow K_S^0 K_S^0 n$
2327± 9±6	ABE 04	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$
2231±10	BOOTH 86	OMEG	85 $\pi^- Be \rightarrow 2\phi Be$
2220 ⁺⁹⁰ ₋₂₀	LINDENBAUM 84	RVUE	
2320±40	ETKIN 82	MPS	22 $\pi^- p \rightarrow 2\phi n$

¹ Includes data of ETKIN 85. The percentage of the resonance going into $\phi\phi 2^{++} S_2$, D_2 , and D_0 is 6^{+15}_{-5} , 25^{+18}_{-14} , and 69^{+16}_{-27} , respectively.

NODE=M107M

NODE=M107M

NODE=M107M;LINKAGE=C

 $f_2(2300)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
149±41	² ETKIN 88	MPS	22 $\pi^- p \rightarrow \phi\phi n$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
90±29	VLADIMIRSK...06	SPEC	40 $\pi^- p \rightarrow K_S^0 K_S^0 n$
275±36±20	ABE 04	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$
133±50	BOOTH 86	OMEG	85 $\pi^- Be \rightarrow 2\phi Be$
200±50	LINDENBAUM 84	RVUE	
220±70	ETKIN 82	MPS	22 $\pi^- p \rightarrow 2\phi n$

² Includes data of ETKIN 85.

NODE=M107W

NODE=M107W

NODE=M107W;LINKAGE=C

 $f_2(2300)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \phi\phi$	seen
$\Gamma_2 K\bar{K}$	seen
$\Gamma_3 \gamma\gamma$	seen

 $f_2(2300) \Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

VALUE (eV)	DOCUMENT ID	TECN	COMMENT	$\Gamma_2\Gamma_3/\Gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
44±6±12	³ ABE 04	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$	

³ Assuming spin 2.

DESIG=1;OUR EST;→ UNCHECKED ←

DESIG=2;OUR EST;→ UNCHECKED ←

DESIG=3;OUR EST;→ UNCHECKED ←

NODE=M107225

NODE=M107G1

NODE=M107G1

NODE=M107G1;LINKAGE=AB

NODE=M107

REFID=51191

REFID=49650

REFID=40285

REFID=21870

REFID=21871

REFID=21869

REFID=21866

 $f_2(2300)$ REFERENCES

VLADIMIRSK... 06	PAN 69 493 Translated from YAF 69 515.	V.V. Vladimirska <i>et al.</i>	(ITEP, Moscow)
ABE 04	EPJ C32 323	K. Abe <i>et al.</i>	(BELLE Collab.)
ETKIN 88	PL B201 568	A. Etkin <i>et al.</i>	(BNL, CUNY)
BOOTH 86	NP B273 677	P.S.L. Booth <i>et al.</i>	(LIVP, GLAS, CERN)
ETKIN 85	PL 165B 217	A. Etkin <i>et al.</i>	(BNL, CUNY)
LINDENBAUM 84	CNPP 13 285	S.J. Lindenbaum	(CUNY)
ETKIN 82	PRL 49 1620	A. Etkin <i>et al.</i>	(BNL, CUNY)